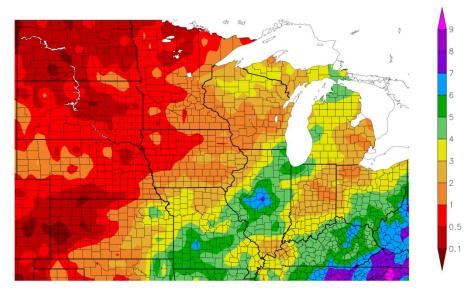
#### **MAC-T Monthly Call**

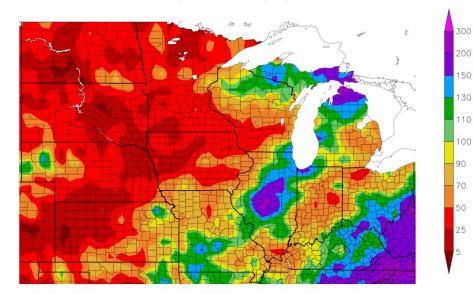
Midwest Agriculture and Climate Team



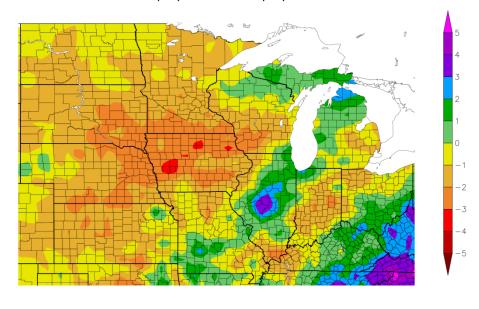
Precipitation (in) 4/4/2020 - 5/3/2020



Percent of Normal Precipitation (%) 4/4/2020 - 5/3/2020



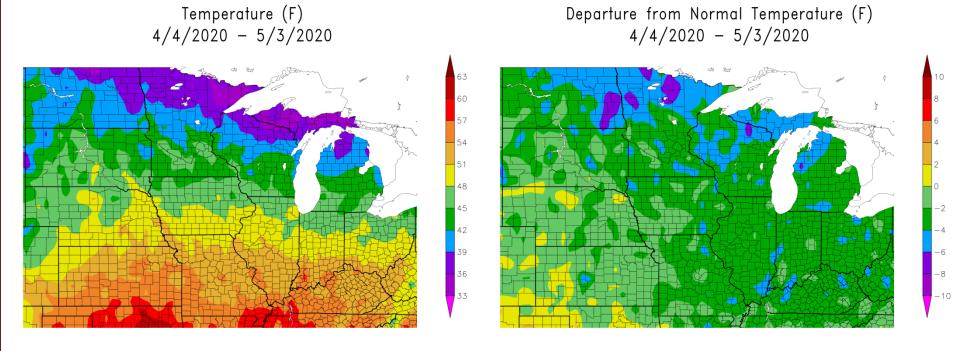
Departure from Normal Precipitation (in) 4/4/2020 - 5/3/2020



Generated 5/4/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers

- Remarkably dry over much of the plains
- Less than an inch in some places
- Widespread less than 50% several places less than 25%
- Only pockets above average.
- Did not capture most recent rains.



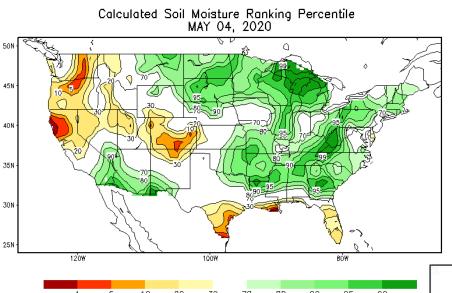
Generated 5/4/2020 at HPRCC using provisional data.

NOAA Regional Climate Centers Generated 5/4/2020 at HPRCC using provisional data.

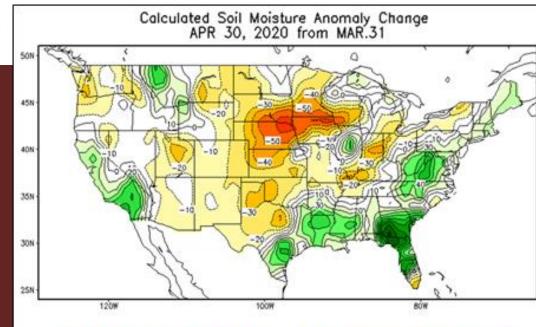
NOAA Regional Climate Centers

- Mid-month cold still dominating overall averages
- 2-4 F below average.
- Several nights of below freezing conditions.

## Soil Moisture

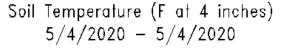


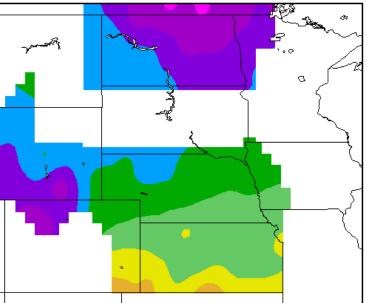
- Rapidly drying out conditions over much of the region.
- Soils still seem to have ample moisture in the profile.
- Surface soils drying out aiding planting.



http://www.cpc.ncep.noaa.gov/products/Soilmst\_Monitorin
g/US/Soilmst/Soilmst.shtml#

Soil Temperature

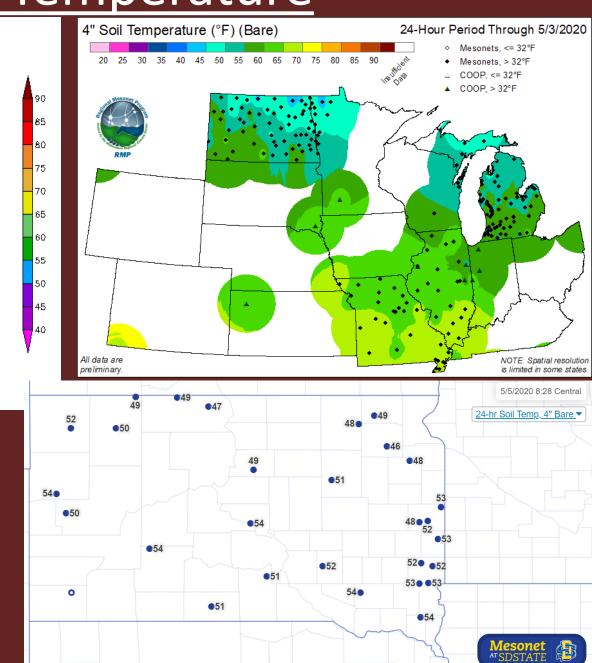


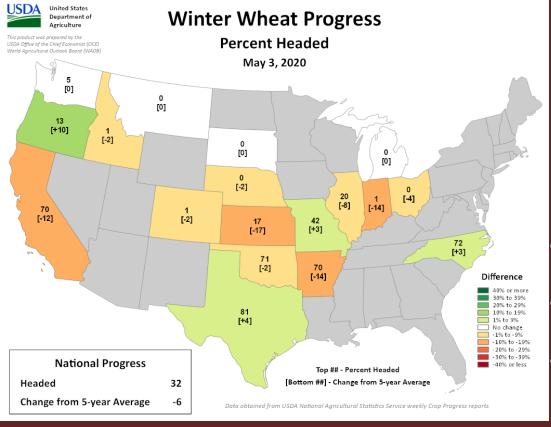


High Plains Regional Climate Center Generated 5/5/2020 using AWDN data.

- Recent warmth with drying conditions allowing soils to warm well.
- Above 50 F nearly everywhere (suitable for corn)

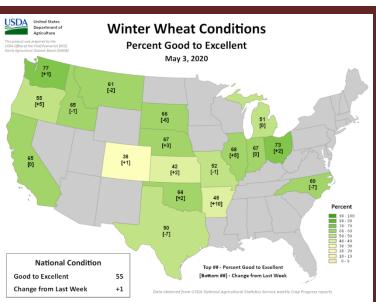
https://mrcc.illinois.edu/RMP/currentMaps.html https://hprcc.unl.edu/maps.php?map=AWDNMaps http://climate.sdstate.edu

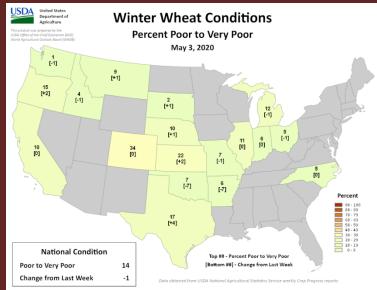


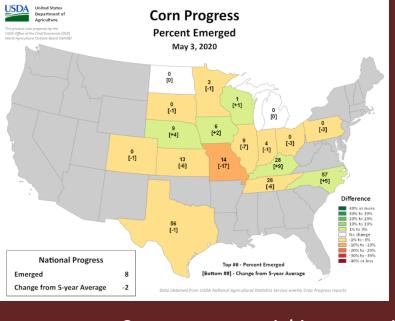


# USDA NASS Crop Progress Winter Wheat

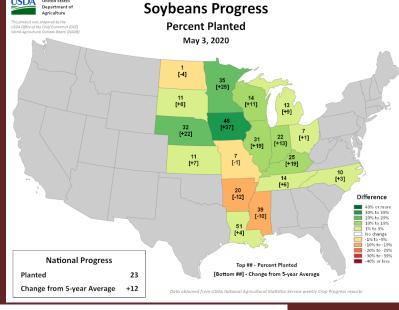
- Winter wheat progress a little behind 5 year avg.
- Conditions worsened after severe cold
- Overall still in pretty good condition.



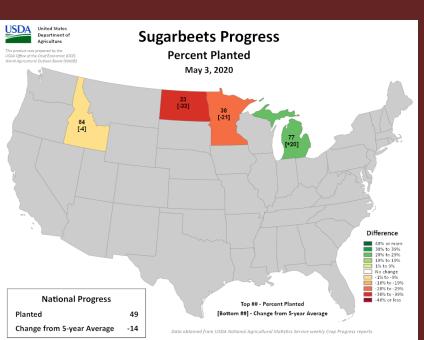


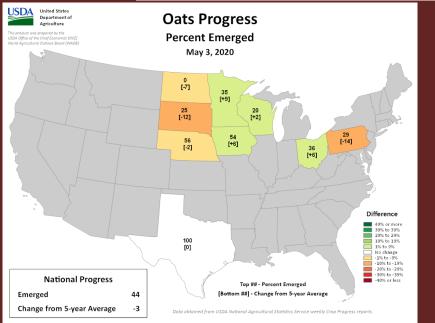


# USDA NASS Crop Progress



- Corn progress picking up quickly.
- Actually ahead of 5 year avg. many places.

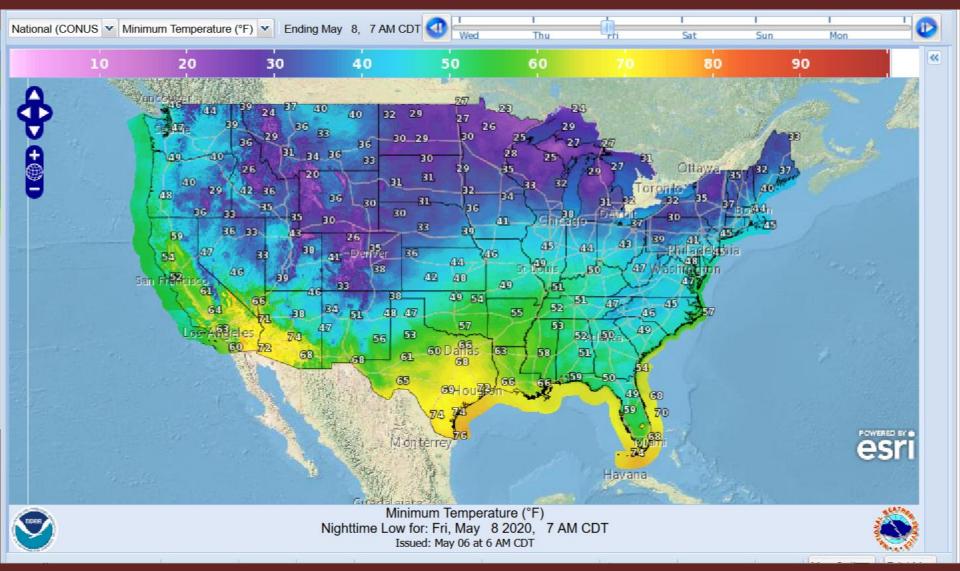




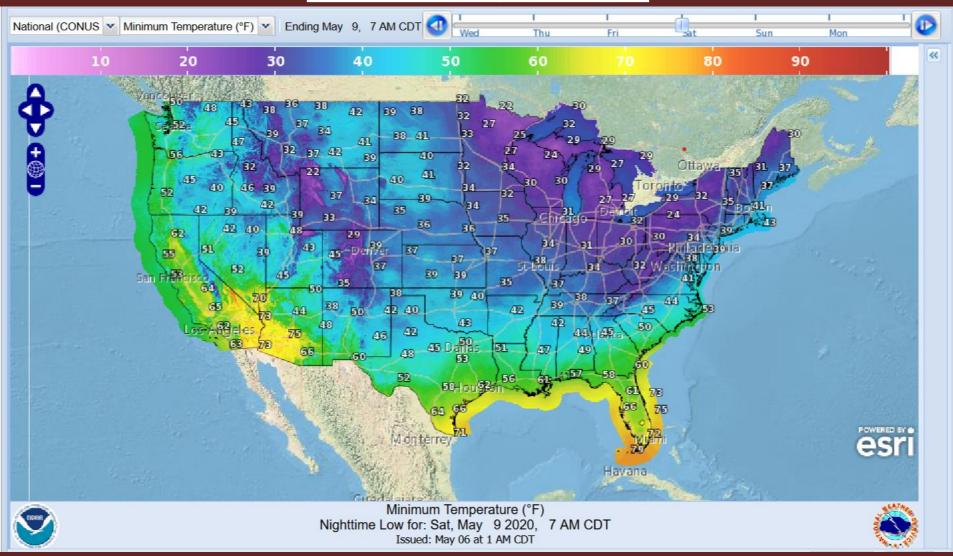
#### Assorted AG Issues

- Planting making remarkable progress (ahead of 5 year avg.)
- Still slower in the north (esp. ND and MO)
- Surface soils becoming dry and needing a little rain in places – based on various local comments. Recent rains will help.
  - Likely slow SD down somewhat.
- Current dryness overall a positive.

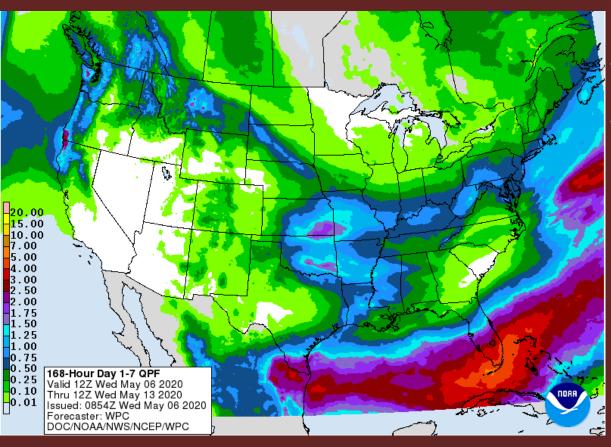
#### **Friday Lows**



#### Saturday Lows



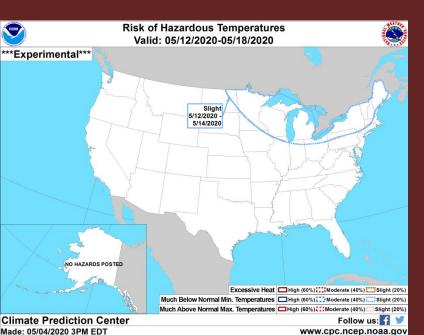
#### 1-7 Day Precip

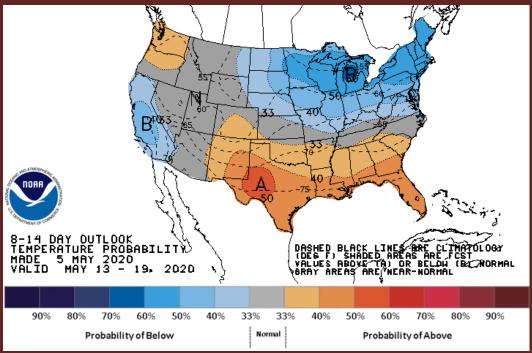


- Precip chances SD to Ohio Valley.
- Drier swath expected around Great Lakes.

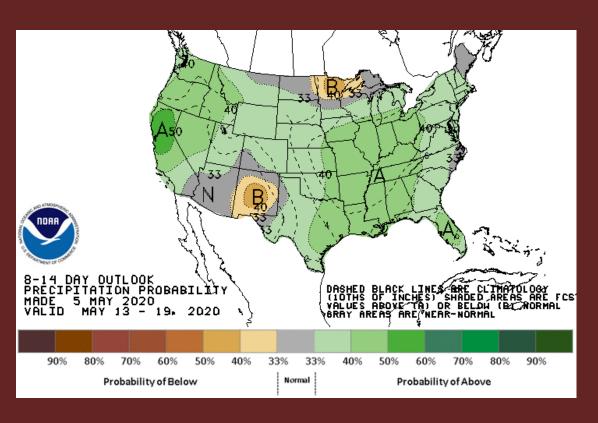
#### Temperature Outlook

- Similar pattern sticking with us
- Colder more likely to the east
- Several chances of cold which will go below freezing around Great Lakes.
- Communicate with particularly sensitive stakeholders if needed.





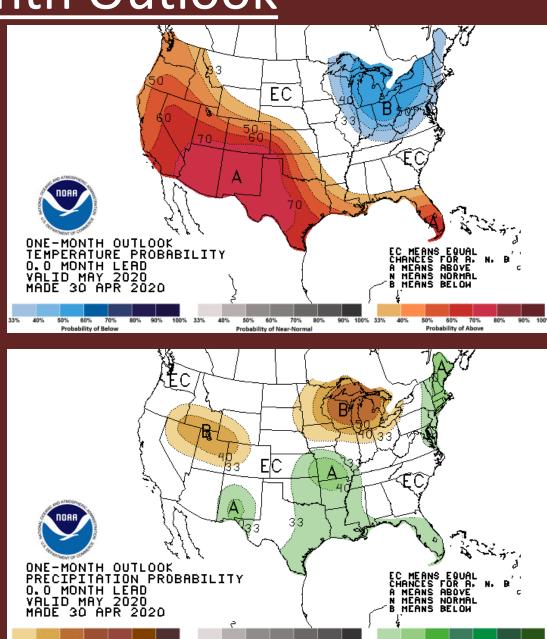
#### **Precipitation Outlook**



- 8-14 day leans slightly wet now
- Good for ongoing planting
- A little help for drier soils.

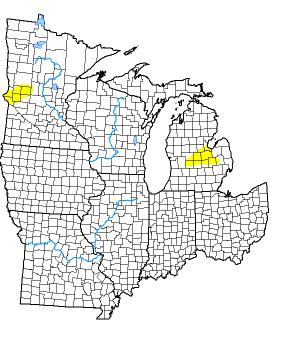
#### 1-Month Outlook

- May pattern similar to 8-14 day.
- Cold more likely around Great Lakes.
- Warmer into central plains.
- Good chance of dry over Great Lakes.
- Slightly increased chance of wetness centered on Missouri. Would worsen slower planting there.



## Drought in the Midwest

U.S. Drought Monitor JSDA Midwest Climate Hub



April 28, 2020

(Released Thursday, Apr. 30, 2020) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	98.38	1.62	0.00	0.00	0.00	0.00
Last Week 04-21-2020	98.26	1.74	0.00	0.00	0.00	0.00
3 Month's Ago 01-28-2020	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 12-31-2019	99.71	0.29	0.00	0.00	0.00	0.00
Start of Water Year 10-01-2019	80.58	19.42	4.98	0.39	0.00	0.00
One Year Ago 04-30-2019	100.00	0.00	0.00	0.00	0.00	0.00

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Deborah Bathke

National Drought Mitigation Center



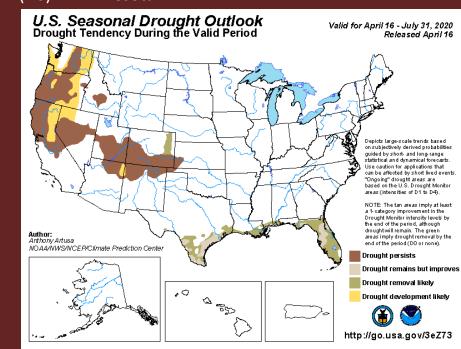






droughtmonitor.unl.edu

The western half of the region saw warmer than normal average temperatures, with departures ranging from 1 degree above normal in eastern lowa to 8 degrees above normal in western Iowa. In the eastern half, temperatures were 1 to 7 degrees below normal, with the greatest departures generally occurring in the Upper Great Lakes area. Precipitation occurred across much of the region with weekly totals generally between 0.5 and 1.75 inches. A band of 3 to 4 inches of rainfall stretched from southwest Missouri to central Illinois. The only change in the region to this week's map was a small reduction in abnormal dryness (D0) in Minnesota.



#### <u>Summary</u>

- Precip chances in dry for a bit then coming back.
  - Will allow good planting progress except Dakotas
- Temps likely colder east. Freeze could occur around Great Lakes. Just slow plant emergence other places.
- Monitoring for drought increases in the region.

# Next MAC-T Monthly Call

Next Call

June 3rd, 2020